

## ENERSOL BIOPOWER PVT. LTD.

Enersol Biopower® a company established in 2013 has attained an enviable reputation in the market for manufacturing, supplying and distributing a range of biomass to energy products.

The consistent increase in LPG prices has significantly impacted the confectionery industry in recent years. Biomass stoves emerge as a favorable alternative to LPG stoves due to their dual advantages of being both environmentally friendly and cost-effective.

Our Bio-Virat18 Biomass Stove is specifically tailored for the confectionery industry, providing heat levels comparable to LPG stoves while also achieving over 60% savings in production costs.

खुर्ची आधा, काम ज्यादा!



## ESB-R BIO-VIRAT18



### 18" Smokeless Biomass Stove/Bhatti

A STEP TOWARDS GREEN ENERGY



## KEY FEATURES OF ESB-R BIO-VIRAT18

ESB-R Bio-Virat18 biomass stove has some unique features that make it more advantageous than other available biomass stoves in the market. They are as follows:

- ✓ Constructed from mild steel and ceramic bricks, it boasts a long lifespan.
- ✓ It is more efficient than traditional chulha.
- ✓ It is a reliable, rugged, and compact system.
- ✓ It has low maintenance requirements and is easy to operate.
- ✓ Accessible to both urban and rural populations.
- ✓ It reduces the use of fossil fuels.
- ✓ It promotes sustainable fuel usage by efficiently utilizing biomass materials such as agricultural residues, wood pellets, or crop wastes, thereby reducing the demand for traditional fuel sources and mitigating deforestation pressures.
- ✓ As it comes with enclosed combustion chambers or temperature control mechanisms, it reduces the risk of accidental fires or burns.
- ✓ An eco-friendly product with low emission & no soot.

### KEY FEATURES



**60% more cost-effective than LPG gas stoves.**



**Return on investment in 2 months.**



**Wood waste, cow dung cakes, coal, or briquettes can be used**

# TECHNICAL SPECIFICATIONS

Sr. No.	Particulars	Details
1.	Make	Enersol Biopower®
2.	Fuel Mode	100% Biomass
3.	Stove Type	Force-draft
4.	Feeding Mode	Manual
5.	Feeding System	Side Feeding
6.	Biomass consumption	16-30kg/hr.
7.	Made of	Mild Steel & Ceramic Brick
8.	Thermal Output	40000-75000Kcal/hr.
9.	Accepted Moisture in Fuel	Less than 20%
10.	Ash Removal Mode	Manual
11.	Flame Regulator	Provided to adjust the flame
12.	Thermal Efficiency	35.5%

**WORKS LIKE LPG STOVE**

**Model No.  
ESB-R/BV18**

**Model Name  
Bio-Virat18**

**Power  
Required  
165Watt  
Blower**

**Stove  
Fire zone  
18" fire zone**

**Stove Size  
H26" x W31**

**Weight  
220kg  
Approx.**

# RETURN ON INVESTMENT (ROI)

Sr. No.	Particular	Details
1.	LPG commercial cylinder cost	Rs.1819/-
2.	1kg LPG is equal to	5kg wood chips
3.	Biomass wood chips to replace one LPG commercial Cylinder	95kg ( 5 x 19)
4.	Total biomass cost to replace 1 LPG cylinder	Rs.665 (95 x 7) (considering wood cost Rs.7/kg)
5.	Saving per LPG cylinder	Rs.1,154/- (1819-665)
6.	If LPG consumption per day is one commercial cylinder then per day saving	Rs.1,154/-
7.	Per month saving	Rs.34,620/- (1,154 x30)
8.	Yearly saving	Rs.4,15,440/- (34,620 x 12)

RETURN ON INVESTMENT (ROI)

**IF REPLACE  
ONE CYLINDER  
PER DAY**

**SAVE  
Rs.34,620/-  
PER MONTH**

**SAVE  
Rs.4.15lakh  
PER YEAR**

**1kg  
LPG**



**5kg  
Wood**

# APPLICATIONS



Prasad at Temple



To Prepare Langar at Gurdwara



Sweet Shops



At Mess & Canteen



Food Flavor & Food Colors Manufacturers



Mawa/Khoya Makers



## APPLICATIONS



Banana Chips Manufacturers



Namkeen Manufacturers



Laddu Manufacturers



Bundi-dana Manufacturers



Ayurvedic Medicine Manufacturers



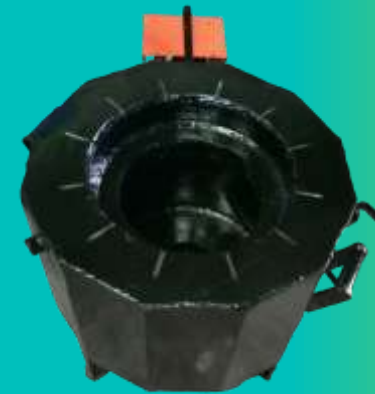
Fabric Dye Shops

## ESB-R BIO-VIRAT18 PICTURES

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ESB-R BIO-VIRAT18 PICTURES



## OUR PRODUCTS ON YOUTUBE

- ✓ <https://www.youtube.com/watch?v=7MVHph7NfkY>
- ✓ <https://www.youtube.com/watch?v=hoFHYyMAstY>
- ✓ <https://www.youtube.com/watch?v=-XmU5L6lytM>
- ✓ [https://www.youtube.com/watch?v=-dsKwNdd\\_IY](https://www.youtube.com/watch?v=-dsKwNdd_IY)
- ✓ <https://www.youtube.com/watch?v=vY73UXW6aIM>
- ✓ <https://www.youtube.com/watch?v=IAGaO9LRVOY&t=100s>
- ✓ <https://www.youtube.com/watch?v=FYPajsGRrrw>
- ✓ <https://www.youtube.com/watch?v=6cYUyY25OXE>
- ✓ <https://www.youtube.com/watch?v=qPXbaBs1cgU>
- ✓ <https://www.youtube.com/watch?v=qT4slGGJEfl>
- ✓ <https://www.youtube.com/shorts/JL5d8YCauic>
- ✓ <https://www.youtube.com/watch?v=qJa4ePv7ggc>



- ✓ [https://www.youtube.com/shorts/YdZkz\\_QbkLU](https://www.youtube.com/shorts/YdZkz_QbkLU)
- ✓ <https://www.youtube.com/watch?v=LKDIbvXdHyM>
- ✓ <https://www.youtube.com/watch?v=PfQVa7wNUBU&t=33s>
- ✓ <https://www.youtube.com/watch?v=RjHPXigdAa8>
- ✓ <https://www.youtube.com/watch?v=7MVHph7NfkY&t=116s>
- ✓ <https://www.youtube.com/watch?v=LKDIbvXdHyM>
- ✓ <https://www.youtube.com/watch?v=5zYZ5I5zBfc>
- ✓ <https://www.youtube.com/watch?v=0AhISC5Dw00>
- ✓ [https://www.youtube.com/watch?v=mkyeqDBI\\_2Y](https://www.youtube.com/watch?v=mkyeqDBI_2Y)
- ✓ <https://www.youtube.com/watch?v=W9HXk2M-Mgw>

## OUR PRESTIGIOUS PARTNERS

- ✓ Mahalaksmi Sweets, Sitamarhi, Bihar.
- ✓ Mega Minerals, Ajmer, Rajasthan.
- ✓ Mr. Janakraj Suthar, Bikaner.
- ✓ Sharma Sweets, Ludhiana, Punjab.
- ✓ Meet Enterprise, Jamnagar, Gujarat.
- ✓ Shaik Abdul Kaleem, Karimnagar, Telangana.
- ✓ Premier Aromatics, Bangalore, Karnataka.
- ✓ Balaji Traders, Pune, Maharashtra.
- ✓ Shri Gulab Sweets, Mau, Madhya Pradesh.
- ✓ Amrit Peda Bhandar, Rohatak, Haryana.
- ✓ Shri Ganpati Dairy, Ajmer, Rajasthan.
- ✓ Janta Sweets & Namkeen, Ajmer, Rajasthan.
- ✓ Shivam Misthan Bhandar, Rajsamand, Raj
- ✓ Shraavan Kumar, Meghalaya.
- ✓ QIIRO Foods, Himachal Pradesh.
- ✓ Maa Bhawani Bikaner Sweets, Panagar.
- ✓ Gajanand Sweets, Jhunjhunu, Rajasthan.
- ✓ Jodhpur Misthan Bhandar, Karauli, Rajasthan.
- ✓ Manish Sankhla, Yellamaband, Hyderabad, Telangana.
- ✓ Jai Baba Ji Enterprise, Muzaffarpur, Bihar.

OUR PRESTIGIOUS PARTNERS





## **OUR PRODUCTS SOLD IN INDIA**

- ✓ Jammu & Kashmir
- ✓ Himachal Pradesh
- ✓ Chandigarh
- ✓ Punjab
- ✓ Uttarakhand
- ✓ Haryana
- ✓ Delhi
- ✓ Rajasthan
- ✓ Uttar Pradesh
- ✓ Gujarat
- ✓ Madhya Pradesh
- ✓ Chhattisgarh
- ✓ Maharashtra
- ✓ Telangana
- ✓ Pondicherry
- ✓ Tamil Nadu
- ✓ Kerala
- ✓ Jharkhand
- ✓ West Bengal
- ✓ Sikkim
- ✓ Meghalaya
- ✓ Assam
- ✓ Bihar
- ✓ Arunachal Pradesh
- ✓ Orissa
- ✓ Goa
- ✓ Karnataka
- ✓ Andhra Pradesh



# **ESB-R BIOMASS STOVE RANGE**

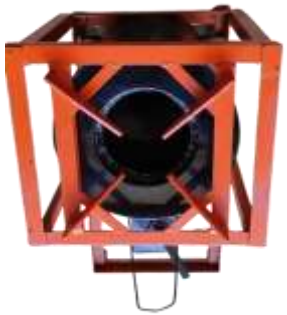
**ESB-R  
Bio-Nature**



**ESB-R  
Bio-Mini**



**ESB-R  
Green-Agnika10**



**ESB-R  
Harit-Agni12**



**ESB-R  
Harit-Agni12B**



**ESB-R  
Bio-Prithvi24**



**ESB-R  
Green-Magic15**



**ESB-R  
Harit-Jumbo27**



**ESB-R  
Bio-Akash21**



**ESB-R  
Jumbo-Shakti36**



**ESB-R BIOMASS  
STOVE RANGE**

## OUR PRODUCTS



**Automaking Roti  
Making Machine**



**Biomass based  
Automatic  
Mawa-Machine**



**Portable Biomass  
Gasifier**



**Roti Maker  
Biomass Stove**



**Biomass  
Torrefaction Plant  
(Charcoal Plant)**



**Biogas Generator**



**Used Oil  
Recycling Plant**



**Wood Cutter /  
Biomass Shredder**



**Multi-Purpose  
Food Processing  
Machine**



**Biomass  
Briquette  
Pellet Machine**

**OUR PRODUCTS**

## AWARDS

- ✓ Fifth National Grassroots Innovation Award, 2009.
- ✓ Innovation Scholars In-residence Program At President House.
- ✓ Indian Merchant Chamber (IMC) – Inclusive Innovation Award, 2012.
- ✓ Certificate of Appreciation As “Farmer Scientist” By Rajasthan University of Veterinary & Animal Sciences, Bikaner, Rajasthan.
- ✓ Certificate of “Farmer Scientist” By Pacific University, Udaipur, Rajasthan.
- ✓ Certificate From Department of Science & Technology At National Science Day, Jaipur, Rajasthan.
- ✓ Business Expo Kota 2023, Kota, Rajasthan.



## AWARDS & EXHIBITIONS





## EXHIBITIONS

- ✓ Exhibition of Innovations, President House, 2010
- ✓ Inauguration of ESB-R Biomass gasifier by former chief minister of Meghalaya, 2013
- ✓ Third international conference on creativity & innovations at grassroots at Indian institute of management (IIM), Ahmedabad, 2015
- ✓ Exhibition of innovations, President House, 2015
- ✓ India International Science Festival (IISF), New Delhi, 2016.
- ✓ India International Trade Fair (IITF), New Delhi, 2016.
- ✓ Mega Science & Technology and Industry Expo, New Delhi, 2017
- ✓ Bollywood movie Padman promotion, 2018.



AWARDS & EXHIBITIONS

## CONNECT US

 YouTube

<https://www.youtube.com/@enersolbiopower-biomassgas3987>

 indiamart

<https://www.indiamart.com/enersol-biopower-jaipur/profile.html>



<https://twitter.com/EnersolBiopower>

 LinkedIn

<https://www.linkedin.com/company/enersol-biopower-pvt-ltd>

 Instagram

<https://www.instagram.com/enersolbiopower/>

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